ABSTRACT

The present invention provides a method for supporting sleep mode wake up in a home phone line network. The method includes: detecting a limited automatic repeat request (LARQ) header in a frame; stripping the LARQ header and a frame check sequence (FCS) in the frame; recalculating the FCS for the stripped frame; and adding the recalculated FCS to the stripped frame. The method strips the LARQ header from a HPNA frame before it is sent to an Ethernet controller. By stripping the LARQ header, the Ethernet controller will correctly find the set byte location for the wake pattern and attempts to match the bit pattern with the wake pattern. In this manner, sleep mode wake up is supported.